

ABSTRACT OF THE DISCLOSURE

A two-phase excitation linear motor is provided, having a compact size and a large thrust force simultaneously. Each of two single coils is formed to have an almost rectangular ring-like shape where two sides opposing to each other function as a pair of effective conductors, and the other opposing two sides function as a pair of connecting conductors for connecting between the effective conductors. The connecting conductors are offset at an almost right angle. The two single coils are integrated such that the one effective conductor of the pair of effective conductors of the one single coil is interposed between the pair of effective conductors of the other single coil while the single coils are being combined such that the offset directions of the connecting conductors of the individual single coils are opposite to each other in a direction perpendicular to a traveling direction.